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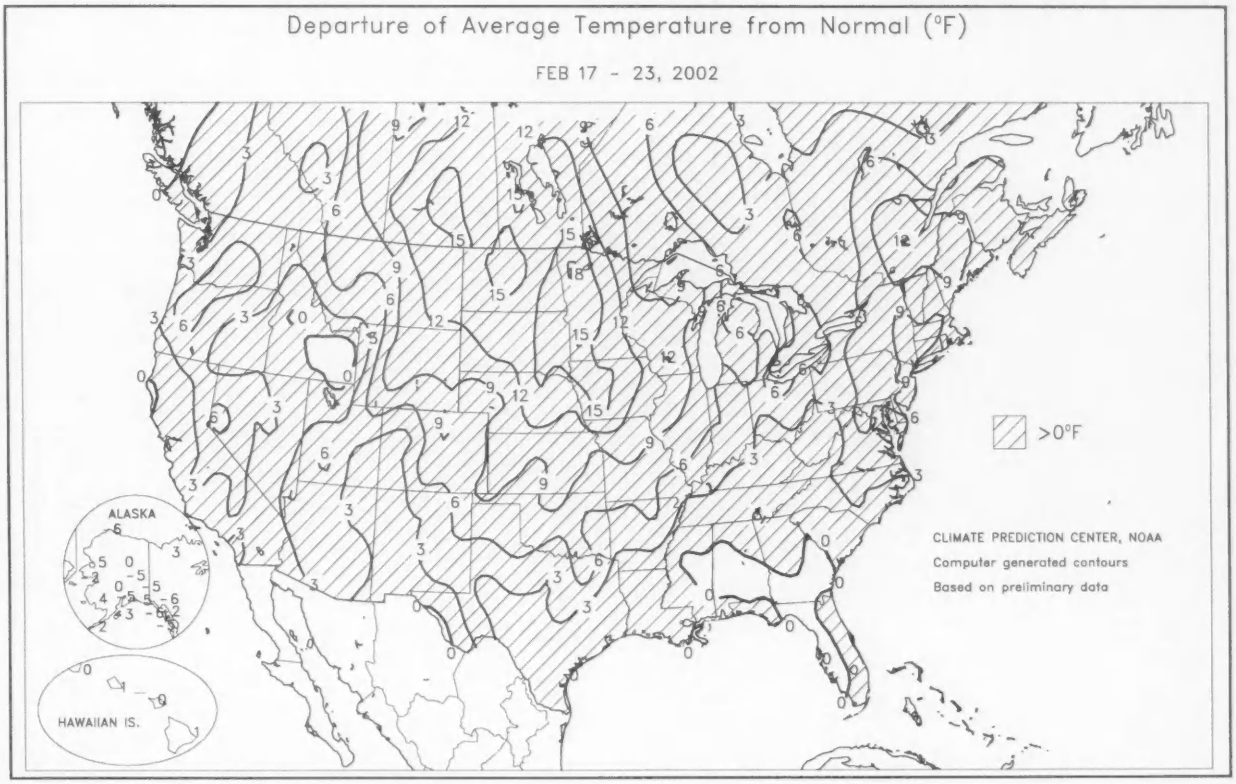
WEEKLY WEATHER AND CROP BULLETIN

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
National Weather Service

U.S. DEPARTMENT OF AGRICULTURE
National Agricultural Statistics Service
and World Agricultural Outlook Board



HIGHLIGHTS

February 17 - 23, 2002

Highlights provided by USDA/WAOB

Record warmth prevailed nearly nationwide in advance of a strong cold front that reached the **northern Plains** by week's end. Prior to the arrival of cold air, high temperatures peaked near 70°F as far north as **Montana** and reached or exceeded 80°F in **northern Texas**, causing wheat to lose some winter hardiness. Drought-stressed wheat on the **High Plains** had little protection from the sudden temperature change, although as much as 4 inches of snow blanketed the **Montana High Plains**. Meanwhile, weekly rainfall totaled 1 inch or more in many locations from **Missouri to Wisconsin and Michigan**, recharging soil moisture but leaving muddy

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Weather Data for Selected Locations in the Delta and the Bootheel

Weather Data for the Week Ending February 23, 2002

Data provided by the Mississippi State Delta Research and Extension Center (DREC), the Southern Regional Climate Center (SRCC), and the University of Missouri.

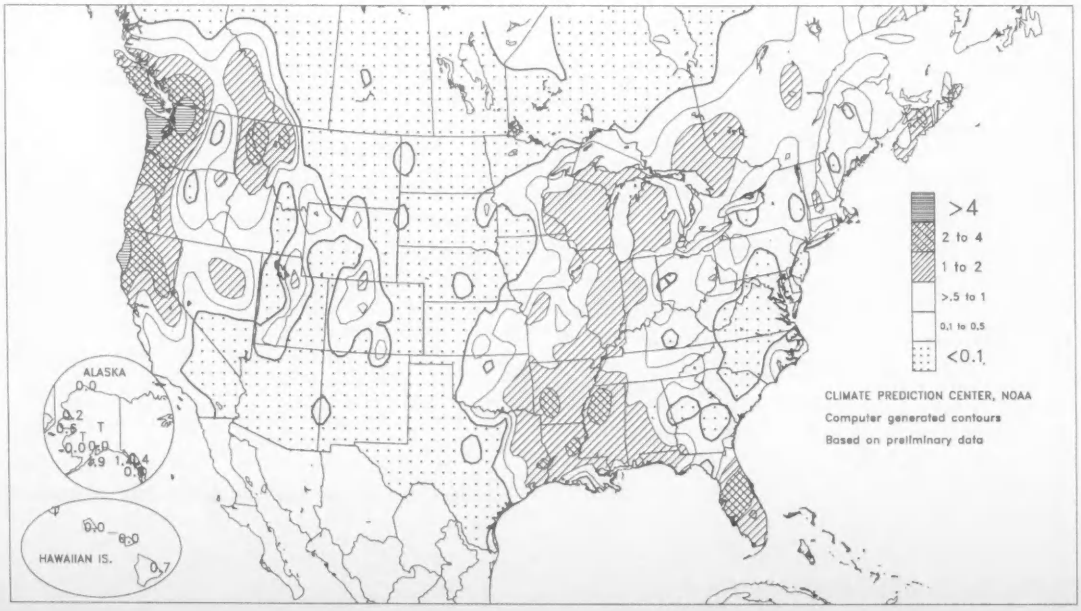
STATES AND STATIONS		TEMPERATURE °F						PRECIPITATION							4-INCH SOIL TEMP, °F		NUMBER OF DAYS			
																	TEMP. °F		PRECIP	
		AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL IN., SINCE Dec 1	PCT. NORMAL SINCE Dec 1	TOTAL IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
MS	BATESVILLE [X]	61	37	69	25	49	4	1.95	0.85	1.95	21.11	150	12.56	153	--	--	0	3	1	1
	CLARKSDALE [X]	60	40	68	27	50	3	1.45	0.26	1.45	21.97	152	10.74	118	--	--	0	1	1	1
	CLEVELAND [X]	61	40	67	29	51	3	1.81	0.63	1.81	18.63	138	12.07	143	--	--	0	1	1	1
	GREENVILLE [X]	63	39	67	28	51	2	2.00	0.81	2.00	22.78	158	13.52	148	--	--	0	1	1	1
	GREENWOOD [X]	61	37	70	26	49	-1	1.39	0.34	1.39	18.54	132	10.64	123	--	--	0	3	1	1
	INDIANOLA 1S	60	41	68	30	51	--	1.81	--	1.81	17.40	--	10.56	--	55	48	0	1	1	1
	INVERNESS 5E	60	43	69	32	52	--	1.63	--	1.63	17.87	--	9.89	--	58	49	0	1	1	1
	LYON	60	40	69	28	50	--	1.11	--	1.11	--	--	--	--	56	45	0	2	1	1
	MOORHEAD [X]	61	43	69	30	52	3	2.07	0.90	2.07	18.56	123	10.98	120	--	--	0	1	1	1
	ONWARD	63	40	71	30	52	--	0.95	--	0.95	14.50	--	7.53	--	55	49	0	1	1	1
	ROLLING FORK [X]	64	40	71	28	52	3	1.45	0.29	1.45	13.02	86	7.78	82	--	--	0	1	1	1
	SIDON	61	43	69	33	52	--	1.46	--	1.46	16.47	--	8.79	--	61	47	0	0	1	1
	TUNICA [X]	60	39	69	30	50	5	1.18	0.15	1.18	16.49	123	6.22	79	--	--	0	2	1	1
	TUNICA 1W	59	38	69	28	49	--	0.99	--	0.99	15.83	--	5.50	--	53	45	0	2	1	1
	VANCE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	VICKSBURG [X]	66	42	73	30	54	2	1.23	0.06	1.10	15.02	95	8.27	82	--	--	0	1	2	1
	YAZOO CITY [X]	63	39	70	28	51	0	1.14	-0.13	1.14	16.14	97	8.65	83	--	--	0	1	1	1
	STONEVILLE *	62	40	68	31	51	3	2.00	0.88	2.00	22.07	152	12.98	143	58	45	0	1	1	1
MO	CARDWELL	58	37	66	28	47	4	1.42	0.41	1.42	15.54	132	6.63	97	51	45	0	2	1	1
	CHARLESTON	55	35	62	27	45	5	0.97	0.07	0.96	13.66	125	5.67	91	51	40	0	4	2	1
	CLARKTON	57	35	64	27	46	5	1.13	0.27	1.13	15.84	154	6.00	103	--	--	0	4	1	1
	DELTA	54	33	59	25	44	3	1.45	0.39	1.34	13.07	109	6.41	92	49	39	0	4	2	1
	GLENNONVILLE	57	35	63	27	46	5	1.05	0.19	1.04	14.44	140	5.87	101	51	41	0	3	2	1
	PORTAGEVILLE #1	57	37	64	28	47	6	1.10	0.11	1.09	15.25	129	6.46	96	54	42	0	2	2	1
	PORTAGEVILLE #2	58	36	64	26	47	6	0.99	0.00	0.99	14.47	123	6.07	90	53	41	0	3	1	1
	STEELE	58	37	67	29	47	5	1.02	0.08	1.02	15.16	122	7.03	98	52	43	0	2	1	1

Compiled by USDA/OCE/WAOB's Stoneville Field Office. * Based on 1964-93 normals. [X] Based on 1971-2000 normals.

Delta and Bootheel Weather and Crop Summary: At midweek, a strong frontal system produced widespread showers and thunderstorms across the Delta and Bootheel. The abundant rainfall halted all fieldwork. Cold air trailing the system lowered temperatures to below-normal levels. More winter wheat reached the tiller stage, but the majority remained at the seedling development stage. Some corn was planted in southern portions of the Delta.

Total Precipitation (Inches)

FEB 17 - 23, 2002

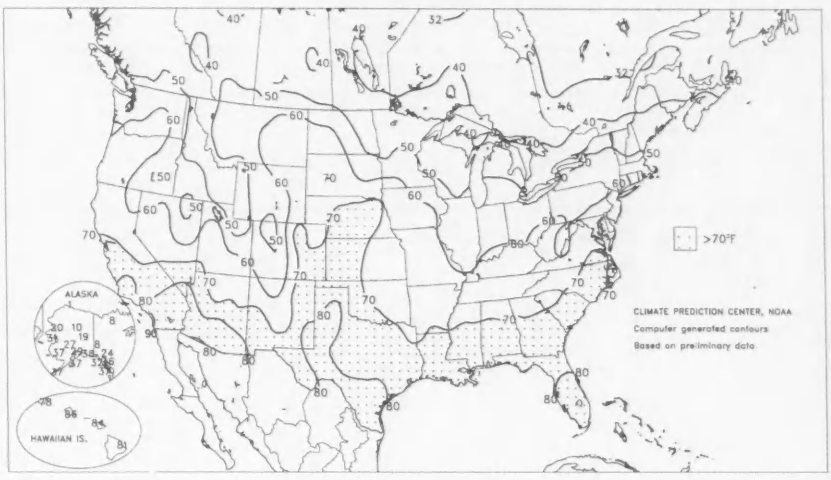


(Continued from front cover)

conditions in fields and feedlots. **Midwestern** temperatures also soared to record levels, averaging 8 to 18°F above normal across the **western half of the Corn Belt**. Farther south, heavy rainfall (locally 2 inches or more) briefly returned to the **lower Mississippi Valley** and adjacent areas, slowing fieldwork but maintaining adequate to locally excessive soil moisture. In contrast, unfavorable dryness persisted in the **middle and southern Atlantic regions**, where drought continued to threaten groundwater reserves and stress pastures and winter grains. However, beneficial rainfall overspread **Florida's peninsula** toward week's end, reducing irrigation requirements. In the **West**, warmth in **California** and the **Southwest** aided spring fieldwork operations and promoted vegetable and small grain development. However, extremely dry conditions maintained summer water-supply concerns in the **central and southern Rockies** and the **Southwest**. Farther north, beneficial precipitation continued for much of the week in **northern California**, the **Great Basin**, the **northern Rockies**, and the **Pacific Northwest**.

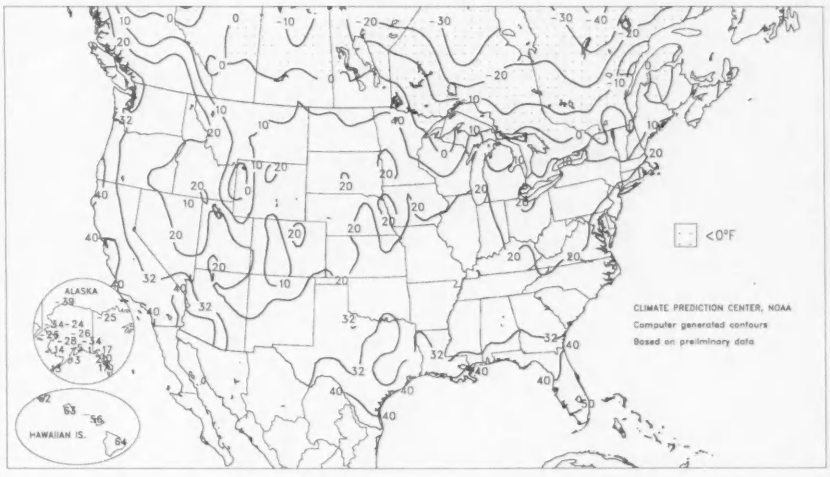
Extreme Maximum Temperature (°F)

FEB 17 - 23, 2002



Extreme Minimum Temperature (°F)

FEB 17 - 23, 2002



Early in the week, a generally light snowfall ended across portions of the **Northeast**. February 17 snowfall included 4.6 inches in **Burlington, VT**, and 1.3 inches in **Worcester, MA**. Farther west, rain showers developed on Tuesday across the **Midwest**, expanding into the **East** by midweek. February 18-19 rainfall totaled 1.48 inches in **LaCrosse, WI**, and 0.99 inch in **Rochester, MN**, easily surpassing the cities' normal monthly precipitation (0.99 and 0.75 inch, respectively). Rain changed to snow by midweek across the **upper Midwest**, totaling 1.3 inches (on February 20-21) in **LaCrosse** and 2.8 inches in **Rochester**. Meanwhile, 12.3 inches of snow blanketed **Marquette, MI**, on February 20. The liquid equivalent of the snow, 1.48 inches, was just shy of **Marquette's** single-day precipitation record for the month (1.53 inches on February 3, 1983).

Meanwhile, significant precipitation again bypassed the **middle and southern Atlantic States**. In **Washington, DC**, where precipitation totaled 5.86 inches (33 percent of normal), or 12.13 inches below normal, from September 1, 2001 - February 24, 2002, weekly rainfall was just 0.01 inch. In contrast, February 19 rainfall reached 1.89 inches in **Little Rock, AR**, and 1.77 inches in **Shreveport, LA**. Although the midweek storm system skirted **Florida**, a second system took direct aim on the peninsula toward week's end. February 22-23 totals in **central Florida** included 2.27 inches in **Daytona Beach** and 2.46 inches in **Orlando**.

Sporadic heavy precipitation also fell in the **Northwest**, where February 23 rainfall included 1.61 inches (a daily record) in **Walla Walla, WA**, and 1.89 inches in **Meacham, OR**. In advance of the rain's arrival, record warmth developed across the **Northwest** on Thursday. Daily-record warmth also spread across the remainder of the **West** on February 21-22, reaching the **northern Plains** on Friday and the **central Plains** and **upper Midwest** at week's end. More than 150 daily-record highs were set or tied nationwide from February 21-23, including consecutive records in locations such as downtown **Los Angeles, CA** (88°F on the 21st and 90°F on the 22nd), **Santa Ana, CA** (93°F on both days), **Eugene, OR** (68°F on the 21st and 67°F on the 22nd), and **Pueblo, CO** (72°F on the 22nd and 23rd). In **Montana**, however, the temperature in **Glasgow** fell from 66°F on February 22 (their earliest high above 65°F on record) to a low of -5°F on February 24. A 1.3-inch snowfall accompanied **Glasgow's** transition to cold weather. Elsewhere in **Montana**, **Great Falls** received 5.6 inches of snow on February 23-24, while **Havre** noted a temperature drop from 64°F on the 22nd to -12°F on the 24th.

Warm, tranquil weather prevailed in **Hawaii** until week's end, when heavy showers developed across portions of the **Big Island**. On February 18-19, **Honolulu, Oahu**, noted consecutive daily-record highs (84 and 86°F). On February 23-24, **Big Island** rainfall totals for a 24-hour period reached 4.98 inches in **Honokaa** and 2.73 inches in **Laupahoehoe**. Farther north, colder air overspread much of **Alaska**, where temperatures averaged as much as 6°F below normal. Occasional heavy precipitation continued across **southern Alaska**, where **Kodiak** received 1.29 inches (including 1.4 inches of snow) on February 22, and **Juneau** netted a February 1-24 precipitation total of 5.13 inches (157 percent of normal).

National Weather Data for Selected Cities

Weather Data for the Week Ending February 23, 2002

Data Provided by Climate Prediction Center (301-763-8000, Ext. 7503)

STATES AND STATIONS		TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																	TEMP. °F		PRECIP	
		AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Dec 1	PCT. NORMAL SINCE Dec 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL	BIRMINGHAM	61	36	70	25	49	1	0.93	-0.10	0.93	13.75	104	8.99	102	83	31	0	3	1	1
	HUNTSVILLE	59	34	69	27	47	1	0.32	-0.96	0.32	13.36	89	7.05	75	79	47	0	3	1	0
	MOBILE	68	41	76	32	55	0	1.28	0.00	1.28	9.28	64	6.45	66	83	41	0	1	1	1
	MONTGOMERY	66	37	73	28	51	-1	0.53	-0.88	0.53	8.18	57	5.09	54	89	41	0	1	1	1
AK	ANCHORAGE	22	8	29	-5	15	-5	0.00	-0.19	0.00	0.72	31	0.52	42	80	62	0	7	0	0
	BARROW	-15	-29	1	-39	-22	-6	0.00	-0.03	0.00	0.15	45	0.09	43	83	70	0	7	0	0
	FAIRBANKS	6	-19	19	-26	-7	-5	0.02	-0.06	0.02	0.41	26	0.32	39	84	75	0	7	1	0
	JUNEAU	33	22	36	10	28	-2	0.38	-0.61	0.17	13.02	97	8.53	106	96	91	0	7	4	0
	KODIAK	32	22	37	3	27	-3	1.91	0.60	0.74	27.25	132	19.44	150	84	72	0	5	5	3
	NOME	11	-4	31	-26	4	-2	0.55	0.39	0.33	3.16	125	2.63	174	86	81	0	7	4	0
AZ	FLAGSTAFF	52	23	64	16	37	4	0.07	-0.59	0.04	1.26	21	0.09	2	73	20	0	7	2	0
	PHOENIX	75	51	84	45	63	4	0.00	-0.20	0.00	0.93	41	0.05	4	40	24	0	0	0	0
	TUCSON	74	43	86	33	59	3	0.00	-0.22	0.00	1.24	46	0.64	39	40	19	0	0	0	0
	YUMA	77	49	86	41	63	0	0.00	-0.06	0.00	0.01	1	0.00	0	46	33	0	0	0	0
AR	FORT SMITH	62	38	67	28	50	5	0.85	0.17	0.80	10.73	139	5.03	116	87	43	0	1	3	1
	LITTLE ROCK	61	39	67	30	50	3	1.59	0.75	1.59	13.24	121	5.36	86	93	37	0	2	1	1
CA	BAKERSFIELD	67	44	83	38	56	2	0.26	-0.04	0.25	1.51	53	0.85	40	88	66	0	0	2	0
	FRESNO	64	46	77	39	55	3	0.36	-0.16	0.34	3.16	61	1.23	32	91	74	0	0	3	0
	LOS ANGELES	69	51	89	43	60	2	0.35	-0.41	0.35	2.42	33	1.13	21	89	59	0	0	1	0
	REDDING	57	45	67	41	51	1	2.15	0.84	1.27	15.52	99	6.22	57	93	84	0	0	5	2
	SACRAMENTO	60	46	68	42	53	1	0.38	-0.46	0.21	9.71	105	3.43	51	98	68	0	0	4	0
	SAN DIEGO	68	51	87	48	60	1	0.17	-0.33	0.17	0.98	19	0.54	14	75	53	0	0	1	0
	SAN FRANCISCO	60	50	73	46	55	2	0.73	-0.22	0.36	11.51	108	2.97	38	96	85	0	0	4	0
	STOCKTON	62	46	70	40	54	2	0.27	-0.31	0.18	7.45	114	2.42	51	95	82	0	0	4	0
CO	ALAMOSA	47	16	59	7	31	6	0.01	-0.04	0.01	0.78	113	0.65	181	84	40	0	7	1	0
	CO SPRINGS	57	27	72	20	42	9	0.02	-0.08	0.02	0.32	36	0.23	48	65	17	0	5	1	0
	DENVER INTL	57	29	72	21	43	11	0.06	-0.02	0.05	0.77	122	0.63	197	58	20	0	5	2	0
	GRAND JUNCTION	48	27	52	23	37	1	0.07	-0.05	0.03	0.66	46	0.35	38	78	55	0	7	3	0
	PUEBLO	63	21	72	14	42	6	0.00	-0.07	0.00	0.73	86	0.51	111	57	23	0	7	0	0
CT	BRIDGEPORT	48	33	59	24	41	8	0.24	-0.47	0.17	4.56	48	2.53	42	77	51	0	4	3	0
	HARTFORD	49	29	62	18	39	9	0.63	-0.07	0.41	4.79	49	2.58	42	76	51	0	5	3	0
DC	WASHINGTON	56	36	66	27	46	7	0.00	-0.66	0.00	3.25	39	1.71	32	71	33	0	3	0	0
DE	WILMINGTON	53	32	63	22	43	8	0.06	-0.65	0.06	3.93	44	1.96	35	90	43	0	4	1	0
FL	DAYTONA BEACH	71	52	83	44	61	0	2.32	1.64	1.59	5.10	64	4.75	90	96	55	0	0	2	2
	JACKSONVILLE	67	47	77	36	57	0	0.36	-0.39	0.31	8.22	93	5.09	82	95	52	0	0	2	0
	KEY WEST	76	66	80	62	71	0	1.71	1.38	1.50	5.75	103	2.19	64	84	62	0	0	2	1
	MIAMI	77	63	81	55	70	1	2.00	1.50	1.30	6.84	119	3.80	107	86	62	0	0	2	2
	ORLANDO	72	54	82	46	63	0	2.50	1.90	1.70	5.04	77	4.56	108	90	57	0	0	2	2
	PENSACOLA	68	47	75	35	57	1	1.17	0.00	1.16	9.55	73	7.18	79	79	38	0	0	2	1
	TALLAHASSEE	68	39	76	32	54	-2	0.53	-0.65	0.53	8.44	64	7.66	85	86	41	0	2	1	1
	TAMPA	73	55	79	48	64	1	1.85	1.16	1.07	6.27	94	5.38	123	88	57	0	0	2	2
	WEST PALM	77	61	81	49	69	1	0.86	0.31	0.84	12.00	134	8.60	147	84	61	0	0	3	1
GA	ATHENS	60	37	68	25	49	2	0.22	-0.87	0.21	8.23	69	6.75	82	76	43	0	2	2	0
	ATLANTA	60	38	69	30	49	1	0.31	-0.85	0.31	10.03	80	7.81	89	78	54	0	2	1	0
	AUGUSTA	64	33	72	23	49	-1	0.19	-0.83	0.18	6.05	55	5.05	65	86	32	0	3	2	0
	COLUMBUS	66	41	74	34	53	2	0.25	-0.89	0.25	8.38	66	6.56	79	77	31	0	0	1	0
	MACON	64	37	73	27	51	1	0.33	-0.79	0.25	7.83	62	6.25	72	87	34	0	2	2	0
	SAVANNAH	66	40	74	29	53	-1	0.25	-0.42	0.15	5.04	55	4.53	72	90	43	0	2	3	0
HI	HILO	79	66	81	64	72	1	0.70	-1.51	0.42	42.20	155	28.43	169	82	73	0	0	3	0
	HONOLULU	81	68	86	63	74	1	0.00	-0.57	0.00	5.41	72	4.65	100	70	61	0	0	0	0
	KAHULUI	80	63	84	56	72	0	0.00	-0.51	0.00	7.45	85	4.34	76	77	67	0	0	0	0
	LIHUE	77	67	78	62	72	0	0.01	-0.76	0.01	7.73	64	6.23	86	78	68	0	0	1	0
ID	BOISE	50	30	61	23	40	2	0.12	-0.16	0.11	2.39	65	1.24	54	79	63	0	4	2	0
	LEWISTON	53	36	60	31	44	4	0.43	0.21	0.38	2.36	81	1.71	91	79	69	0	2	2	0
	POCATELLO	38	22	44	12	30	-2	0.02	-0.23	0.01	1.95	65	0.87	46	91	78	0	7	2	0
IL	CHICAGO/O'HARE	44	28	54	22	36	7	0.68	0.29	0.38	2.98	55	1.99	66	86	63	0	5	3	0
	MOLINE	48	30	57	19	39	10	0.86	0.47	0.51	2.84	58	1.85	68	32	62	0	4	4	1
	PEORIA	48	31	57	23	40	10	0.76	0.32	0.42	5.19	101	3.84	139	85	59	0	5	2	0
	ROCKFORD	44	28	50	21	36	9	1.52	1.19	0.82	3.50	78	2.57	106	86	66	0	5	3	2
	SPRINGFIELD	49	32	56	25	41	9	0.95	0.46	0.88	5.86	107	3.76	127	83	60	0	5	2	1
IN	EVANSVILLE	52	32	61	23	42	5	0.45	-0.35	0.30	11.39	128	4.23	79	86	48	0	4	2	0
	FORT WAYNE	44	27	56	19	36	7	0.91	0.43	0.58	6.11	96	3.71	104	87	54	0	5	3	1
	INDIANAPOLIS	47	30	56	22	39	6	0.87	0.26	0.51	7.62	103	4.61	106	88	54	0	5	2	1
	SOUTH BEND	43	27	55	19	35	6	0.67	0.19	0.32	5.22	76	2.97	78	89	66	0	5	4	0
IA	BURLINGTON	48	31	57	21	40	10	0.73	0.31	0.37	3.49	77	2.50	102	87	54	0	3	3	0
	CEDAR RAPIDS	47	28	62	14	37	10	0.45	0.18	0.18	2.08	62	1.04	55	91	56	0	6	3	0
	DES MOINES	51	31	64	20	41	12	0.45	0.15	0.40	1.66	51	1.00	52	81	60	0	3	2	0
	DUBUQUE	44	27	53	16	36	11	0.66	0.30	0.29	2.41	60	1.10	47	85	69	0	6	3	0
	SIOUX CITY	51	30	68	22	40	13	0.00	-0.17	0.00	0.95	58	0.51	52	94	69	0	4	0	0
	WATERLOO	46	28	59	16	37	12	0.50	0.24	0.37	2.06	75	1.18	72	88	70	0	4	2	0
KS	CONCORDIA	57	34	68	26	45	11	0.63	0.41	0.63	1.51	77	1.44	132	70	54	0	3	1	1
	DODGE CITY	62	31	76	21	46	8	0.00	-0.19	0.00	0.58	32	0.55	52	75	27	0	5	0	0
	GOODLAND	62	27	73	22	45	11	0.00	-0.13	0.00	1.01	92	0.38	54	63	28	0	5	0	0
	TOPEKA	58	33	66	23	46	11	0.66	0.33	0.66	2.33	73	2.20	123	79	46	0	3	1	1

Based on1971-2000 normals

*** Not Available

Weather Data for the Week Ending February 23, 2002

STATES AND STATIONS		TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																	TEMP. °F		PRECIP	
		AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Dec 1	PCT. NORMAL SINCE Dec 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
	WICHITA	61	34	65	27	47	6	0.54	0.24	0.50	2.28	80	2.20	147	72	44	0	3	2	1
KY	JACKSON	51	34	64	26	42	3	0.20	-0.76	0.18	7.65	71	5.10	79	75	30	0	4	2	0
	LEXINGTON	50	31	65	20	40	2	0.28	-0.58	0.22	5.60	57	2.71	46	87	55	0	4	2	0
	LOUISVILLE	52	33	64	23	43	4	0.42	-0.43	0.29	9.99	105	5.52	95	82	44	0	4	2	0
	PADUCAH	55	34	64	23	44	4	1.04	0.05	0.88	15.26	138	6.59	99	84	38	0	4	2	1
LA	BATON ROUGE	71	41	77	31	56	2	0.53	-0.66	0.53	9.98	64	5.73	55	92	31	0	1	1	1
	LAKE CHARLES	71	43	75	33	57	2	1.34	0.64	1.19	10.81	84	5.62	68	96	44	0	0	3	1
	NEW ORLEANS	69	47	78	38	58	1	1.14	-0.14	1.14	9.00	58	6.10	58	86	47	0	0	1	1
	SHREVEPORT	66	41	69	34	54	1	1.81	0.78	1.77	11.59	92	5.49	68	84	40	0	0	3	1
ME	CARIBOU	31	14	37	-3	23	8	0.14	-0.34	0.07	3.09	40	2.10	45	87	54	0	7	3	0
	PORTLAND	42	26	46	16	34	8	0.59	-0.16	0.50	6.05	56	4.02	61	83	49	0	6	2	1
MD	BALTIMORE	54	31	64	20	42	6	0.05	-0.72	0.05	4.20	46	2.47	42	72	35	0	5	1	0
MA	BOSTON	48	34	56	28	41	9	0.39	-0.41	0.32	6.83	66	4.01	61	74	46	0	3	3	0
	WORCESTER	44	30	58	22	37	10	0.39	-0.36	0.14	6.34	61	3.57	55	95	55	0	5	4	0
MI	ALPENA	34	15	43	-1	25	5	1.45	1.13	1.21	3.77	82	2.31	83	91	64	0	6	3	1
	GRAND RAPIDS	41	25	53	19	33	7	0.99	0.63	0.72	4.25	71	1.88	58	94	60	0	5	3	1
	HOUGHTON LAKE	36	18	44	6	27	6	1.52	1.22	1.10	2.75	64	2.16	84	89	63	0	6	3	1
	LANSING	41	24	54	15	32	7	0.46	0.13	0.21	2.80	57	1.67	61	87	64	0	5	3	0
	MUSKEGON	42	26	54	17	34	8	1.53	1.17	1.06	4.00	65	2.58	74	92	67	0	5	3	1
	TRAVERSE CITY	37	20	47	7	28	5	1.51	1.15	1.19	4.76	67	2.58	58	94	58	0	6	4	1
MN	DULUTH	36	19	48	7	27	10	0.09	-0.08	0.06	0.80	30	0.25	14	85	63	0	7	2	0
	INT'L FALLS	36	16	46	1	26	13	0.00	-0.14	0.00	0.39	19	0.12	9	80	49	0	7	0	0
	MINNEAPOLIS	41	28	51	15	35	13	0.38	0.20	0.25	1.63	62	0.89	55	84	65	0	4	3	0
	ROCHESTER	39	25	48	8	32	12	1.21	1.04	0.67	2.69	107	1.30	87	86	73	0	4	6	1
	ST. CLOUD	40	24	53	9	32	14	0.56	0.44	0.47	0.97	52	0.80	68	93	66	0	4	3	0
MS	JACKSON	66	38	74	27	52	1	1.82	0.75	1.46	12.73	87	8.66	93	90	33	0	2	3	1
	MERIDIAN	66	35	74	28	50	-1	1.25	-0.09	1.22	13.49	87	8.20	80	94	43	0	2	2	1
	TUPELO	60	36	65	27	48	2	1.03	-0.19	0.52	16.83	113	10.28	117	81	50	0	3	2	2
MO	COLUMBIA	53	34	64	27	44	9	0.48	-0.09	0.48	4.63	78	3.18	92	82	45	0	4	1	0
	KANSAS CITY	57	35	65	26	46	11	0.72	0.36	0.69	2.63	70	1.88	90	82	44	0	3	2	1
	SAINT LOUIS	53	36	60	28	44	7	0.44	-0.15	0.40	7.24	107	3.78	97	81	59	0	3	2	0
	SPRINGFIELD	57	33	66	21	45	6	0.58	0.00	0.46	7.76	110	4.24	109	80	53	0	4	2	0
MT	BILLINGS	53	32	64	14	43	11	0.01	-0.12	0.01	0.58	31	0.41	34	57	31	0	3	1	0
	BUTTE	42	17	54	9	29	5	0.15	0.04	0.15	0.76	55	0.68	81	87	41	0	7	1	0
	GLASGOW	49	23	66	8	36	14	0.01	-0.05	0.01	0.46	51	0.45	85	88	64	0	6	1	0
	GREAT FALLS	47	21	56	5	34	6	0.07	-0.05	0.07	0.80	47	0.41	40	70	27	0	7	1	0
	HAVRE	50	18	64	9	34	10	0.04	-0.04	0.04	0.44	37	0.43	62	82	51	0	7	1	0
	KALISPELL	43	25	48	14	34	6	0.18	-0.08	0.10	1.61	40	1.11	46	88	74	0	6	3	0
	MISSOULA	45	28	53	23	36	5	0.05	-0.13	0.04	2.11	76	1.00	61	88	67	0	6	2	0
NE	GRAND ISLAND	57	28	74	23	43	13	0.00	-0.19	0.00	0.45	28	0.31	32	84	52	0	5	0	0
	LINCOLN	56	29	70	17	43	13	0.00	-0.19	0.00	1.34	69	1.01	94	79	50	0	4	0	0
	NORFOLK	54	28	76	20	41	13	0.00	-0.20	0.00	0.25	14	0.19	18	83	57	0	6	0	0
	NORTH PLATTE	60	20	72	14	40	9	0.00	-0.14	0.00	0.15	13	0.08	11	87	24	0	7	0	0
	OMAHA	55	31	68	22	43	13	0.00	-0.21	0.00	1.34	60	0.67	51	81	53	0	3	0	0
	SCOTTSBLUFF	57	22	67	15	40	8	0.00	-0.14	0.00	0.05	3	0.05	5	63	38	0	7	0	0
	VALENTINE	57	23	69	18	40	12	0.00	-0.13	0.00	0.03	3	0.03	5	81	44	0	6	0	0
NV	ELY	45	21	55	6	33	2	0.62	0.43	0.24	0.91	51	0.81	63	90	63	0	7	4	0
	LAS VEGAS	68	44	79	38	56	3	0.00	-0.17	0.00	0.11	7	0.00	0	40	27	0	0	0	0
	RENO	58	36	73	31	47	7	0.07	-0.18	0.07	2.65	96	0.85	45	76	53	0	3	1	0
	WINNEMUCCA	52	32	65	22	42	5	0.87	0.73	0.46	2.08	100	1.76	138	89	71	0	3	4	0
NH	CONCORD	42	25	48	14	34	9	0.14	-0.42	0.10	5.35	69	3.11	64	88	52	0	7	2	0
NJ	NEWARK	53	37	64	29	45	10	0.05	-0.66	0.05	4.35	44	2.34	37	70	41	0	2	1	0
NM	ALBUQUERQUE	59	32	67	26	46	3	0.07	-0.04	0.07	0.65	51	0.41	52	58	21	0	3	1	0
NY	ALBANY	45	26	59	16	35	9	0.01	-0.52	0.01	5.15	75	3.21	76	87	44	0	6	1	0
	BINGHAMTON	41	24	51	13	32	7	0.16	-0.45	0.10	6.06	80	3.77	82	67	51	0	5	2	0
	BUFFALO	39	25	51	14	32	5	0.50	-0.08	0.28	12.38	139	5.90	115	88	64	0	5	3	0
	ROCHESTER	41	25	54	13	33	7	0.08	-0.42	0.03	5.01	75	3.29	83	84	61	0	5	4	0
	SYRACUSE	43	25	57	15	34	8	0.25	-0.25	0.16	5.73	77	3.54	83	86	58	0	5	4	0
NC	ASHEVILLE	54	31	62	21	42	2	0.16	-0.79	0.16	7.26	69	4.92	69	73	39	0	4	1	0
	CHARLOTTE	59	33	68	20	46	0	0.05	-0.84	0.05	7.91	79	5.95	87	86	42	0	3	1	0
	GREENSBORO	57	33	66	23	45	3	0.00	-0.76	0.00	6.51	72	4.29	71	74	31	0	3	0	0
	HATTERAS	57	42	65	29	49	2	0.55	-0.37	0.39	8.75	64	6.35	70	85	58	0	1	3	0
	RALEIGH	59	34	71	25	46	2	0.00	-0.85	0.00	8.93	91	6.90	102	78	35	0	3	0	0
	WILMINGTON	62	39	74	26	50	1	0.24	-0.65	0.15	5.12	46	3.81	51	93	35	0	2	3	0
ND	BISMARCK	49	22	60	11	36	15	0.04	-0.07	0.04	0.53	42	0.40	49	81	51	0	7	1	0
	DICKINSON	48	25	66	14	36	13	0.11	0.03	0.08	0.32	31	0.20	29	89	48	0	6	2	0
	FARGO	43	23	49	12	33	16	0.00	-0.14	0.00	0.24	14	0.02	2	86	58	0	7	0	0
	GRAND FORKS	40	19	46	8	30	14	0.00	-0.14	0.00	0.30	18	0.02	2	94	51	0	7	0	0
	JAMESTOWN	46	20	51	11	33	15	0.00	-0.11	0.00	0.08	6	0.01	1	90	44	0	7	0	0
	WILLISTON	45	24	58	10	34	14	0.32	0.24	0.26	1.70	123	1.14	141	84	69	0	6	2	0
OH	AKRON-CANTON	41	24	53	13	33	3	0.48	-0.09	0.23	5.03	69	3.96	93	81	67	0	6	4	0
	CINCINNATI	47	29	59	17	38	2	0.59	-0.11	0.59	7.77	93	3.69	72	79	56	0	4	1	1
	CLEVELAND	42	26	54	15	34	4	0.34	-0.21	0.22	6.45	87	3.92	91	85	58	0	6	3	0
	COLUMBUS	44	29	57	20	37	4	0.46	-0.08	0.40	6.39	89	3.38	79	80	58	0	4	3	0
	DAYTON	44	27	53	19	36	4	0.27	-0.29	0.23	6.28	84	2.62	59	85	55	0	6	3	0
	MANSFIELD	40	24	51	14	32	3	0.41	-0.11	0.35	5.56	73	3.04	70	90	53	0	5	4	0

Based on1971-2000 normals

*** Not Available

Weather Data for the Week Ending February 23, 2002

STATES AND STATIONS		TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																	TEMP. °F		PRECIP	
		AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN	TOTAL IN., SINCE Dec 1	PCT. NORMAL SINCE Dec 1	TOTAL IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
	TOLEDO	44	27	57	16	35	7	0.43	-0.04	0.30	4.51	74	2.49	73	80	62	0	5	3	0
	YOUNGSTOWN	42	25	54	12	33	4	0.46	-0.04	0.19	5.92	86	3.89	99	78	59	0	6	5	0
OK	OKLAHOMA CITY	64	36	80	29	50	6	0.09	-0.36	0.09	4.20	98	3.29	138	83	35	0	2	1	0
	TULSA	63	38	68	29	51	7	0.63	0.09	0.63	5.41	99	3.16	104	80	49	0	2	1	1
OR	ASTORIA	52	43	55	35	47	2	2.17	0.29	0.87	31.84	120	20.01	124	96	89	0	0	7	1
	BURNS	40	24	44	17	32	0	0.15	-0.13	0.12	2.53	76	1.48	73	92	87	0	7	3	0
	EUGENE	59	44	68	33	52	9	0.59	-0.93	0.31	17.37	82	10.66	83	91	82	0	0	5	0
	MEDFORD	55	42	62	38	48	4	1.02	0.52	0.62	8.00	113	3.66	88	97	69	0	0	5	1
	PENDLETON	56	36	68	24	46	6	0.49	0.21	0.48	2.21	57	1.51	63	80	60	0	2	2	0
	PORTLAND	57	43	64	36	50	6	2.61	1.61	0.98	17.68	124	11.06	130	96	85	0	0	7	2
	SALEM	58	42	65	30	50	6	2.39	1.17	1.03	21.80	132	13.76	137	93	83	0	1	7	2
PA	ALLENTOWN	51	29	61	17	40	9	0.00	-0.67	0.00	3.82	42	1.90	33	74	39	0	4	0	0
	ERIE	41	27	54	14	34	5	0.67	0.10	0.36	10.14	126	5.69	131	77	65	0	6	3	0
	MIDDLETOWN	51	30	63	20	41	8	0.00	-0.74	0.00	4.62	55	2.75	53	84	41	0	4	0	0
	PHILADELPHIA	54	36	64	26	45	9	0.06	-0.61	0.06	4.99	56	2.88	51	68	35	0	3	1	0
	PITTSBURGH	45	26	59	13	36	4	0.58	-0.01	0.48	5.24	71	2.81	61	85	46	0	5	4	0
	WILKES-BARRE	46	29	57	19	37	7	0.19	-0.31	0.09	3.82	57	2.71	65	81	40	0	4	3	0
	WILLIAMSPORT	47	30	56	19	38	8	0.13	-0.50	0.11	4.41	56	2.83	57	68	41	0	4	2	0
RI	PROVIDENCE	47	30	57	21	39	7	0.55	-0.28	0.33	6.63	59	4.17	58	81	58	0	5	3	0
SC	BEAUFORT	65	42	73	32	54	2	0.38	-0.32	0.34	4.99	51	3.69	56	92	41	0	2	2	0
	CHARLESTON	66	41	75	28	53	1	0.26	-0.47	0.19	6.62	68	4.90	75	86	35	0	2	2	0
	COLUMBIA	63	37	71	23	50	1	0.07	-0.86	0.07	5.63	51	4.43	57	80	31	0	2	1	0
	GREENVILLE	59	36	67	27	48	2	0.18	-0.91	0.18	8.37	72	6.14	79	73	34	0	2	1	0
SD	ABERDEEN	47	24	50	17	35	14	0.00	-0.12	0.00	0.37	31	0.31	39	88	59	0	7	0	0
	HURON	50	27	58	18	38	15	0.02	-0.13	0.02	0.92	74	0.86	101	87	53	0	6	1	0
	RAPID CITY	53	24	69	16	39	10	0.06	-0.06	0.06	0.12	11	0.12	18	70	35	0	7	1	0
	SIOUX FALLS	50	27	68	16	39	16	0.00	-0.13	0.00	0.45	33	0.34	41	89	56	0	4	0	0
TN	BRISTOL	53	28	64	17	40	1	0.09	-0.77	0.09	8.59	89	5.16	83	95	42	0	5	1	0
	CHATTANOOGA	60	36	68	28	48	3	0.55	-0.66	0.55	12.27	87	7.19	78	86	41	0	3	1	1
	KNOXVILLE	56	34	66	24	45	2	0.27	-0.75	0.27	14.29	117	9.63	124	80	40	0	3	1	0
	MEMPHIS	60	39	69	28	49	3	1.05	-0.05	1.05	15.85	119	5.67	74	80	39	0	2	1	1
	NASHVILLE	57	34	66	25	45	2	0.46	-0.49	0.44	9.95	87	6.63	97	83	35	0	4	2	0
TX	ABILENE	68	40	78	28	54	4	0.24	-0.06	0.24	2.63	85	1.65	90	63	34	0	1	1	0
	AMARILLO	64	32	80	25	48	6	0.00	-0.14	0.00	1.76	109	1.53	153	64	21	0	3	0	0
	AUSTIN	73	36	80	27	55	-1	0.12	-0.41	0.12	7.43	126	2.80	81	64	34	0	2	1	0
	BEAUMONT	70	45	77	36	58	1	0.45	-0.28	0.33	6.67	49	4.37	52	98	42	0	0	4	0
	BROWNSVILLE	78	54	84	42	66	2	0.25	0.01	0.24	1.96	57	0.94	40	90	50	0	0	2	0
	CORPUS CHRISTI	78	44	88	35	61	0	0.00	-0.47	0.00	2.04	42	0.38	12	80	43	0	0	0	0
	DEL RIO	75	45	81	38	60	2	0.00	-0.25	0.00	0.39	19	0.04	3	58	26	0	0	0	0
	EL PASO	66	39	74	28	52	0	0.00	-0.08	0.00	1.36	91	1.22	169	50	19	0	2	0	0
	FORT WORTH	69	43	74	35	56	5	0.06	-0.61	0.05	9.11	145	5.87	159	79	32	0	0	2	0
	GALVESTON	68	53	72	46	61	2	0.58	0.02	0.51	5.41	55	2.91	47	94	52	0	0	3	1
	HOUSTON	72	43	79	33	58	1	0.32	-0.40	0.21	8.34	85	2.17	36	92	43	0	0	2	0
	LUBBOCK	67	32	81	22	50	5	0.00	-0.17	0.00	1.19	70	1.06	104	61	26	0	4	0	0
	MIDLAND	67	35	78	29	51	1	0.00	-0.14	0.00	1.18	74	1.08	114	53	26	0	2	0	0
	SAN ANGELO	69	38	79	31	54	3	0.05	-0.25	0.03	1.56	58	1.42	82	69	29	0	1	2	0
	SAN ANTONIO	74	41	81	34	58	2	0.05	-0.39	0.05	4.26	85	0.83	27	76	27	0	0	1	0
	VICTORIA	75	43	82	33	59	1	0.09	-0.41	0.07	4.42	67	0.90	22	89	45	0	0	3	0
	WACO	71	41	78	31	56	4	0.01	-0.64	0.01	6.70	102	2.67	70	78	40	0	1	1	0
	WICHITA FALLS	67	39	75	31	53	6	0.71	0.28	0.71	3.36	84	2.26	98	79	43	0	1	1	1
UT	SALT LAKE CITY	46	28	56	24	37	1	0.24	-0.09	0.22	2.61	72	1.17	49	89	58	0	7	2	0
VT	BURLINGTON	37	18	49	5	28	7	0.36	-0.03	0.13	4.40	76	2.92	82	94	58	0	6	4	0
VA	LYNCHBURG	56	32	65	20	44	5	0.00	-0.77	0.00	6.47	70	3.28	55	62	29	0	4	0	0
	NORFOLK	57	37	71	27	47	4	0.02	-0.79	0.02	7.05	73	5.22	79	77	40	0	2	1	0
	RICHMOND	58	33	68	22	46	5	0.01	-0.75	0.01	5.62	62	3.95	67	75	38	0	4	1	0
	ROANOKE	54	33	64	23	43	3	0.00	-0.76	0.00	4.97	58	2.49	44	72	47	0	4	0	0
	WASH/DULLES	54	29	65	16	42	6	0.05	-0.65	0.04	2.77	33	1.18	22	73	34	0	5	2	0
WA	OLYMPIA	51	37	56	27	44	3	3.49	2.04	1.17	28.73	140	16.78	132	98	87	0	1	7	3
	QUILLAYUTE	49	40	50	36	44	1	7.46	4.42	3.82	45.03	117	29.17	122	10	95	0	0	7	3
	SEATTLE-TACOMA	51	40	56	35	45	1	3.06	2.08	0.99	17.01	120	11.12	129	98	89	0	0	7	2
	SPOKANE	47	32	51	26	39	5	0.35	-0.01	0.17	4.28	81	2.25	75	92	72	0	5	5	0
	YAKIMA	58	34	67	26	46	9	0.05	-0.12	0.02	2.32	73	1.20	67	89	69	0	3	4	0
WV	BECKLEY	46	26	62	12	36	1	0.13	-0.61	0.11	5.10	59	2.69	48	84	55	0	5	3	0
	CHARLESTON	51	29	66	17	40	2	0.28	-0.53	0.27	6.45	71	3.98	69	93	47	0	5	2	0
	ELKINS	46	23	59	7	34	1	0.51	-0.30	0.21	7.09	75	4.80	81	90	45	0	5	6	0
	HUNTINGTON	50	30	65	18	40	2	0.37	-0.42	0.35	5.82	65	3.57	63	85	42	0	5	2	0
WI	EAU CLAIRE	39	22	49	6	31	10	1.01	0.84	0.63	2.40	90	1.45	89	98	60	0	5	5	1
	GREEN BAY	37	24	45	14	30	8	1.05	0.82	0.61	3.13	93	1.90	96	90	63	0	6	4	1
	LA CROSSE	42	27	51	13	35	10	1.54	1.32	0.97	3.01	94	2.18	111	93	55	0	4	3	2
	MADISON	41	26	49	15	34	9	1.55	1.25	0.77	3.88	99	2.75	122	84	68	0	6	4	2
	MILWAUKEE	42	27	53	20	35	8	0.66	0.27	0.44	2.63	49	1.77	56	87	65	0	6	3	0
WY	CASPER	50	25	57	14	38	10	0.00	-0.16	0.00	0.31	19	0.18	17	63	34	0	6	0	0
	CHEYENNE	50	28	67	19	39	9	0.08	-0.03	0.08	0.57	47	0.44	59	53	30	0	6	1	0
	LANDER	50	25	62	18	37	10	0.00	-0.13	0.00	0.58	39	0.41	47	62	35	0	7	0	0
	SHERIDAN	54	26	65	20	40	11	0.01	-0.11	0.01	0.31	17	0.27	23	71	43	0	6	1	0

Based on1971-2000 normals

*** Not Available

NOTE: These data are preliminary and subject to change. In the past, precipitation totals from a number of stations were incomplete.

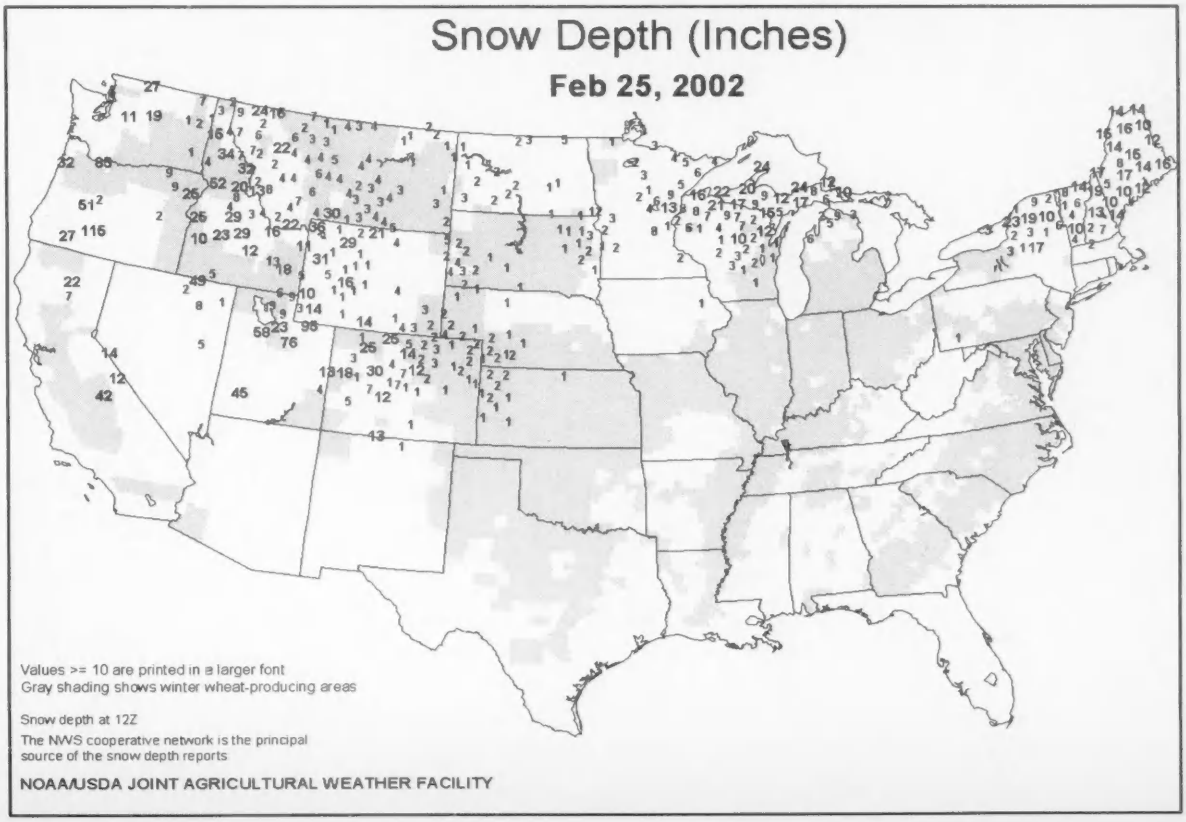
National Agricultural Summary

February 18 - 24, 2002

Weekly National Agricultural Summary provided by USDA/NASS

HIGHLIGHTS

Much of the Southeast remained unfavorably dry, especially on the Atlantic Coastal Plain, where light showers barely maintained topsoil moisture. In the mid-Atlantic States, precipitation completely bypassed most areas. In areas of the Southeast that received precipitation, above-normal temperatures stimulated growth of winter grains and forages. Despite the abnormally warm weather, sub-freezing overnight temperatures provided some beneficially cold temperatures for fruit trees as the bloom season approached. In Florida, steady rainfall provided much-needed moisture reserves for citrus groves in the central Peninsula. Farther south, intermittent showers briefly interfered with sugarcane harvest and work in vegetable fields. Also, most of the Mississippi Valley, from the Delta to the Great Lakes, and parts of the southern Great Plains received beneficial precipitation. Heavy rainfall produced excessive soil moisture in parts of the interior Mississippi Delta and a few areas of the central Corn Belt. Meanwhile, much of the central and northern High Plains received little or no relief from soil moisture shortages. Storms continued to strike the Pacific Northwest, delivering substantial rainfall in low-lying coastal areas and heavy snowfall in the Cascade and Sierra Mountain ranges. Above-normal temperatures and light precipitation promoted rapid growth of winter crops in California's valleys. The rain only briefly delayed field and orchard work.


Snow Depth (Inches)
Feb 25, 2002
Values >= 10 are printed in a larger font
Gray shading shows winter wheat-producing areas
Snow depth at 12Z
The NWS cooperative network is the principal source of the snow depth reports
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY

International Weather and Crop Summary

February 17 - 23, 2002

International Weather and Crop Highlights and Summaries provided by USDA/WAOB

HIGHLIGHTS

EUROPE: Mild weather continued to favor dormant winter grains. However, dry weather persisted in southwestern and southeastern Europe, further reducing moisture supplies for future crop development.

FSU-WESTERN: The sixth consecutive week of unseasonably mild weather favored dormant winter grains, although cooler weather overspread most areas at week's end.

MIDDLE EAST: Drier weather returned to winter wheat areas of the eastern Mediterranean, but scattered precipitation swept across Iran.

AUSTRALIA: Rain benefited immature summer crops and pastures in New South Wales, but warmth and dryness persisted over southern Queensland through week's end.

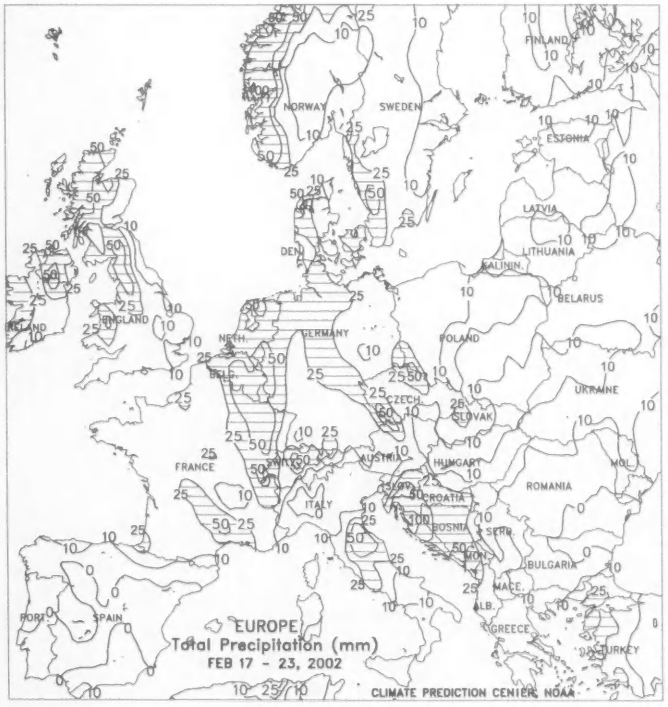
NORTHWESTERN AFRICA: Light showers provided limited relief to winter grains affected by long-term dryness.

SOUTH AFRICA: Dry weather reduced moisture available to immature corn and other summer crops.

SOUTH AMERICA: In central Argentina, pockets of limited soil moisture stressed summer crops, despite light rain. In southern Brazil, persistent showers caused some soybean harvest delays and local flooding, while more rain is needed in Rio Grande do Sul.

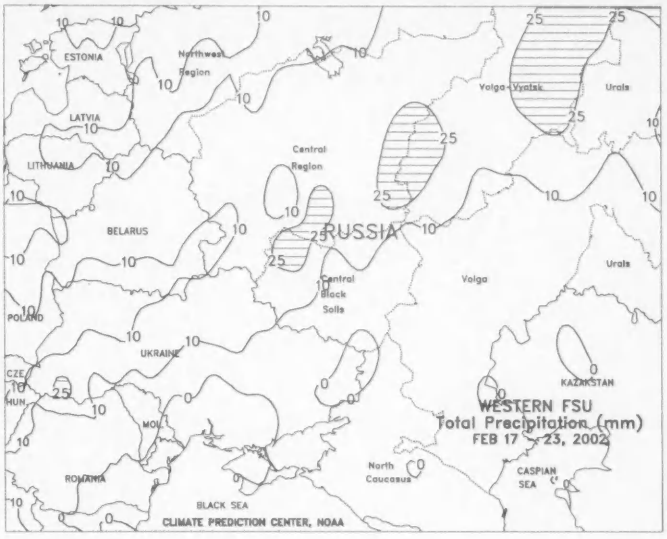
EASTERN ASIA: Across the North China Plain, unseasonably warmer weather continued to cause winter wheat to break dormancy, while widespread rain erased short-term dryness for vegetative winter crops in the Yangtze Valley.

SOUTHEAST ASIA: Excessive moisture continued in Java, Indonesia, while conditions remained unfavorably dry in peninsular Malaysia.



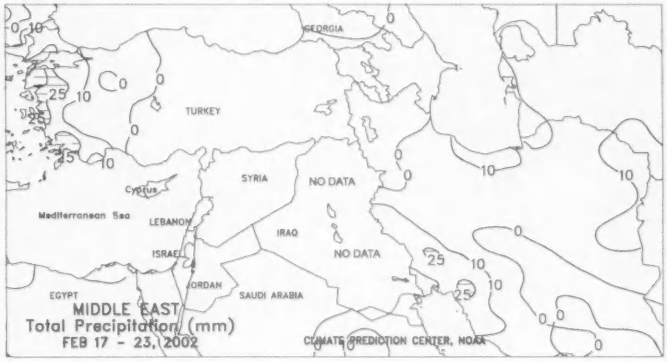
EUROPE

Unseasonably mild weather continued for a fifth consecutive week, maintaining favorable overwintering conditions for winter grains and oilseeds. Temperatures averaged about 0 to 2 degrees C above normal in western Europe and 2 to 6 degrees C above normal in eastern Europe. Some greening likely continued in parts of southern France, the Iberian peninsula, and southern Italy, while crops remained mostly dormant elsewhere. Crop development in southern and eastern Spain was slowed, however, by generally dry weather this week and the past several weeks. Dry weather throughout the remainder of Spain, Portugal, Romania, and Bulgaria further reduced moisture supplies for mostly dormant winter grains. After two consecutive weeks of beneficial rainfall, mostly dry weather also returned to the Po River Valley of northern Italy. In contrast, scattered showers (5-40 mm or more) boosted moisture supplies for durum wheat in central and southern Italy, while widespread precipitation (10-50 mm or more) throughout northern Europe and the western Balkans maintained adequate to locally excessive moisture supplies for dormant winter crops. By week's end, a shallow snow cover protected dormant winter crops in most of Germany and northeastern Europe.



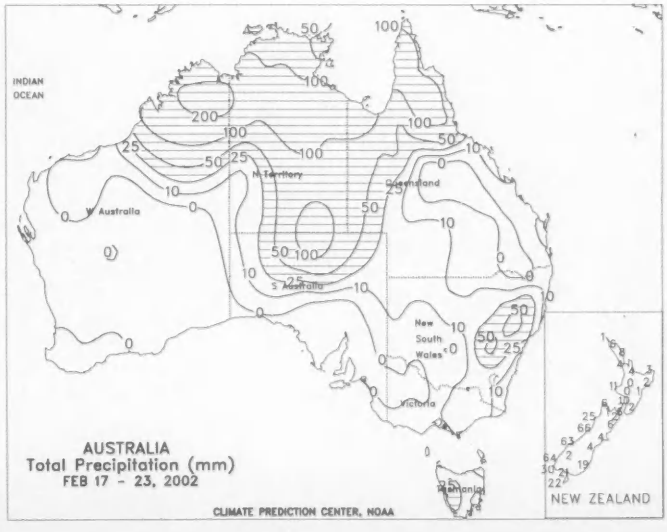
FSU-WESTERN

A storm tracked northeastward across the region, ushering in cooler weather at week's end. Rain (7-20 mm of liquid equivalent) changed to snow in the Baltics, Belarus, and western Ukraine, with moderate to heavy snow (10-25 mm or more of liquid equivalent) boosting snow cover across most of northern Russia. Mostly dry weather prevailed in southern and eastern Ukraine, while light, scattered showers (less than 10 mm) were observed in southern Russia. Weekly temperatures averaged 2 to 6 degrees C above normal in western Ukraine, Belarus, and the Baltics, and 6 to 12 degrees C above normal in eastern Ukraine and most of Russia. At week's end, cooler weather overspread the region. Minimum temperatures ranged from -23 to -15 degrees C across portions of the Baltics and northern Russia, where a sufficient snow cover protected dormant winter grains from potential winterkill. Farther south, temperatures in major winter wheat-producing areas of Ukraine and southern Russia did not fall low enough to threaten crops. Extreme minimum temperatures in these areas ranged from -9 to -3 degrees C. Furthermore, snow cover remained patchy or nonexistent in major winter wheat-producing areas of Ukraine and southern Russia.



MIDDLE EAST

Showers (10-25 mm or more) fell in Turkey's western crop areas, with the heaviest rain confined to the coast. In contrast, dry weather dominated a broad area from central Turkey to northwestern Iran, southward through Syria and Israel. Temperatures averaging 2 to 4 degrees C above normal in these areas caused additional reductions in the cold hardiness of winter wheat. However, temperatures still fell below freezing in many crop areas of Turkey and Syria, limiting vegetative development. Farther east, showers (5-25 mm or more) stretched from southern to northeastern Iran, increasing moisture for upcoming winter wheat development.

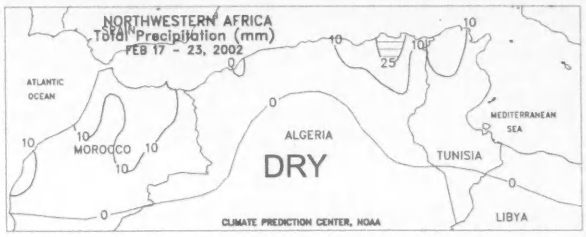


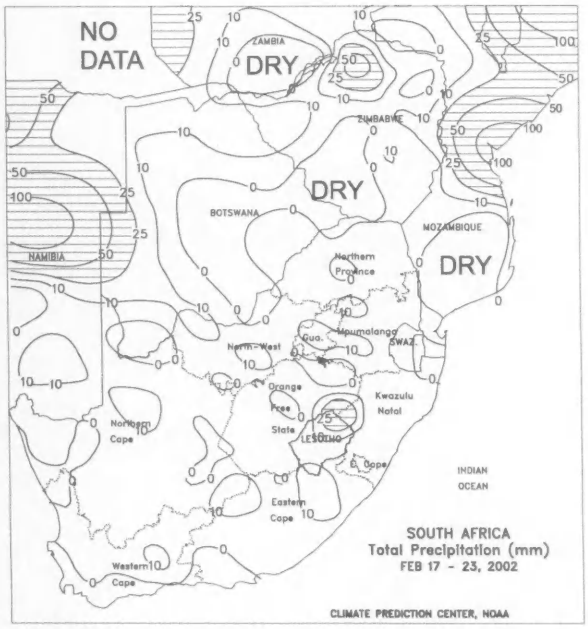
AUSTRALIA

Showers (5-25 mm or more) overspread the main agricultural districts in New South Wales, benefiting immature summer crops and increasing moisture reserves for pastures and livestock. The moisture extended north and westward into the western grazing areas of Queensland and New South Wales, with locally heavy, tropical showers (25-50 mm or more) falling in outlying areas. However, the rain had not yet reached Queensland, and the additional warm, dry weather hastened drydown of sorghum and other summer crops while favoring early harvesting. Unseasonably dry, warm weather also covered coastal sugarcane areas, increasing crop irrigation demands. Elsewhere, dry weather covered much of Western Australia, South Australia, and western Victoria. Temperatures averaged near to below normal, but highs were generally in the mid 30s degrees C, increasing evaporation rates and reducing moisture available for grazing and livestock. Showers tapered off in New Zealand's main small grain and pasture areas, with most locations recording less than 10 mm.

NORTHWESTERN AFRICA

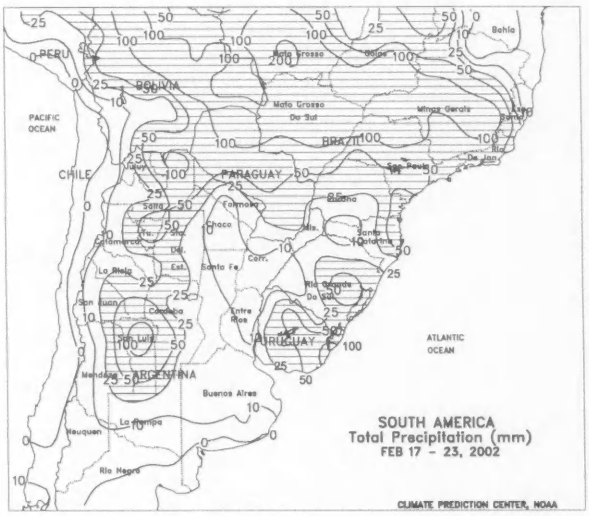
Light showers (5-15 mm) fell throughout Morocco and most of Algeria, providing limited relief from long-term dryness. Showers (10-30 mm) were slightly heavier in eastern Algeria and Tunisia, dampening topsoils, but sub-soil moisture reserves continued to be low. Winter grains are progressing through the jointing stage of development, and consistent rainfall is needed to prevent further declines in crop conditions.





SOUTH AFRICA

A dry weather pattern enveloped southern Africa. However, temperatures averaged 1 to 3 degrees C below normal (highs reaching the upper 20s to lower 30 degrees C) in South Africa's corn belt, reducing moisture demands of filling crops. Rain is needed in central and eastern sections of the corn belt to support normal crop development following up to 4 weeks of drier-than-normal weather. Elsewhere, below-normal temperatures lowered moisture demands of sugarcane and other summer crops, but above-normal temperatures raised irrigation requirements for summer crops and fruit production in the Cape Provinces.

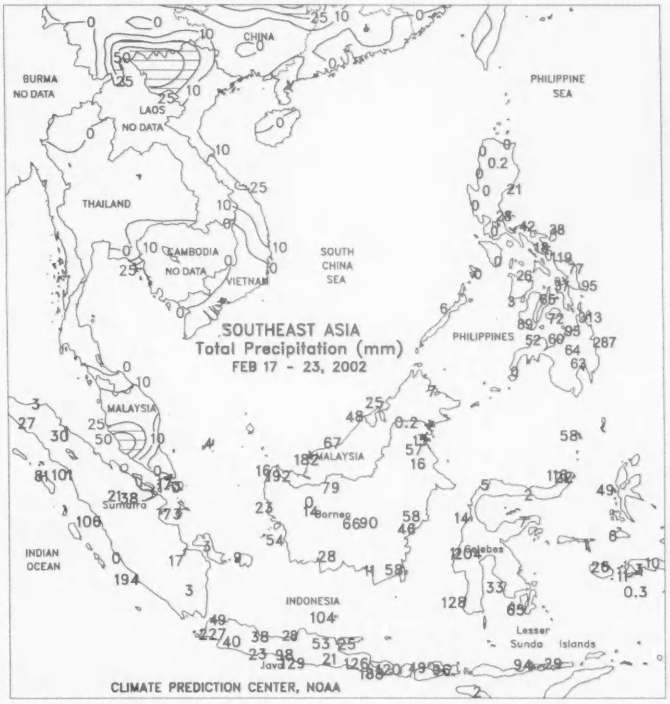


SOUTH AMERICA

Light rain (10-25 mm) and slightly below-normal temperatures continued to prevail across the major crop areas of central Argentina. However, rainfall has been insufficient to offset seasonal crop water use during the past 3 weeks, resulting in pockets of limited soil moisture that stressed reproductive to filling summer crops. Second-crop soybeans are the least developed and are, therefore, in the greatest need of moisture. Southern Buenos Aires received little or no rain, while heavier amounts were reported in western Cordoba and San Luis (40-100 mm). Light to moderate showers (15-30 mm) fell across the northern cotton areas, maintaining adequate moisture supplies. In southern Brazil, widespread showers (25-150 mm or more) provided adequate to somewhat excessive soil moisture for filling to maturing soybeans and corn. The heaviest rain (100-210 mm) fell across southern Mato Grosso, northern Mato Grosso do Sul, southern Goias, northern Sao Paulo, and western and central Minas Gerais, causing some harvest delays and local flooding. Scattered showers (10-40 mm) maintained adequate soil moisture for soybeans in Rio Grande do Sul and southwestern Parana, but some areas need more rain. Dry weather continued to favor summer crop harvesting in western Bahia.

EASTERN ASIA

Across the North China Plain, unseasonably warmer weather continued to cause winter wheat to break dormancy. Across the region, supplemental irrigation for greening wheat was still needed due to seasonably dry weather. Temperatures averaged 3 to 5 degrees C above normal across the region, with highs reaching the upper teens degrees C. In the Yangtze Valley and interior southern China, widespread rain (15-40 mm or more) erased short-term dryness for vegetative winter crops. The heaviest rain (50-80 mm) fell across Hubei and northern Hunan. Mostly dry weather favored spring corn and early rice fieldwork across extreme southern China (Guangdong), but rain will be needed in upcoming weeks for germination. Temperatures averaged 2 to 4 degrees C above normal across the Yangtze Valley and 4 to 7 degrees C above normal across southern China.



SOUTHEAST ASIA

Heavy showers (25-200 mm) in Java, Indonesia, continued to exacerbate wetness, especially in extreme eastern and western areas. Unfavorably dry weather continued in peninsular Malaysia, further reducing available moisture for oil palm. However, in Sumatra, Indonesia, showers (25-100 mm) maintained adequate moisture for oil palm. Widespread rainfall (25-200 mm) in the eastern and southern Philippines maintained moisture supplies for grain and plantation crops. Warm, dry weather in northern Vietnam continued to favor developing winter-spring rice.

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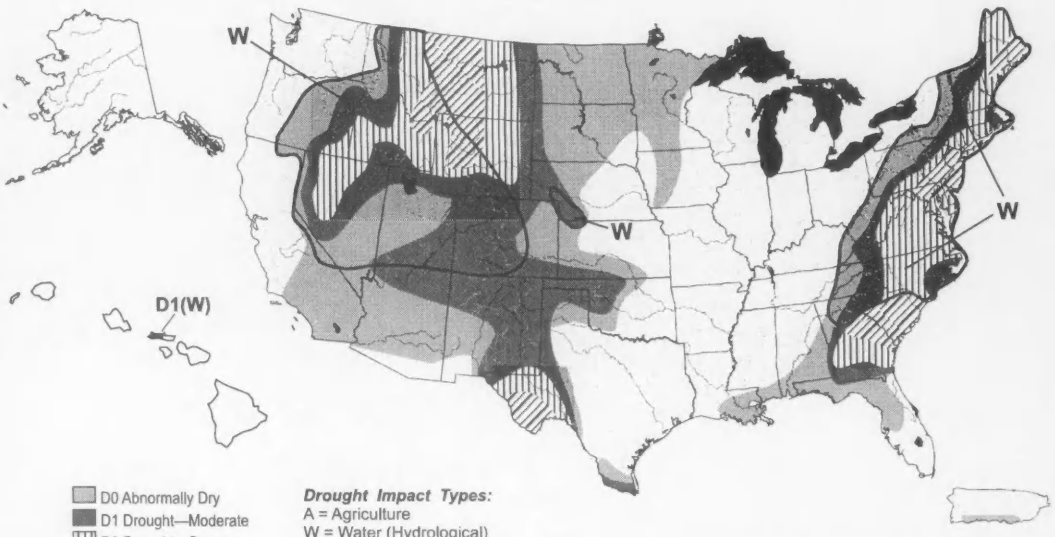
U.S. Drought Monitor

February 19, 2002
Valid 8 a.m. EST



D0 Abnormally Dry
D1 Drought—Moderate
D2 Drought—Severe
D3 Drought—Extreme
D4 Drought—Exceptional

Drought Impact Types:
A = Agriculture
W = Water (Hydrological)
F = Fire danger (Wildfires)
/ Delineates dominant impacts
(No type = All 3 impacts)

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

http://drought.unl.edu/monitor/monitor.html

USDA — National Drought Mitigation Center — NOAA

Released Thursday, February 21, 2002
Author: *Michael Hayes, NDMC*

Climate Prediction Center, W/NP52
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